## **SMM 21105 LS (Stereo)**High Contrast Gray Scale Monitor



- CRT with anti-reflective and anti-static panel and dispenser cathode for long CRT life
- Automatic calibration of black level without external sensor,
   20 minutes after power on and every 12 hours
- Constant Gamma for equal gray scale performance in multi monitor configurations, also over complete lifetime of CRT
- High contrast and brightness/ high resolution CRT, up to 235 fL (800 cd/m²), front-of-screen luminance through 42 % total transmission
- 1600 x 1280 addressability standard
- 1024 x 1024, 120 Hz stereo resolution standard
- Scan range of 70 to 135 kHz horizontal and 50 to 130 Hz vertical
- Microprocessor control of all internal monitor functions
- Front panel brightness, contrast and geometry controls are standard and can be disabled for calibrated applications
- Front panel control for image rotation
- Ambient light sensor for automatic contrast control

## display

The Siemens SMM 21105 LS (Stereo) gray scale monitor is designed to meet the demanding requirements of Imaging and Mapping in stereo mode. The monitor features high resolution at high luminance with low background levels for a wide dynamic range. The monitor's internal microprocessor controls all electrical and magnetic monitor functions, and continuously adjusts

drive levels to maintain constant luminance over the life of the CRT. For each format, the dynamic focus ensures optimal sharpness at any point on the screen. The monitor is capable of storing up to 19 different timing formats. All formats are stored internally, including a full set of screen settings for each. Formats are selected and modified through the RS 232 serial port.

**SIEMENS** 

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Technical Data	
Power requirements	
Input voltage	94 to 264 V Wide range power supply
Power frequency	47 to 63.6 Hz
Power consumption	Approx. 150 W
Power factor control Power saving	According to EN 61 000 According to VESA DPMS
CRT specifications	recording to 125/121/115
Size	54 cm / 21", flat & square (landscape)
Deflection angle	90 °
Light transmission	42 %
Phosphor type	P45, cadmium free
Surface	Multicoated conductive panel (AR/AS)
Gun system	Dispenser cathode (long life)
Focus	Static and dynamic
General performance	
Horizontal frequency	70 to 135 kHz
Vertical frequency	50 to 130 Hz
Formats	19 max., self recognizing and auto-scaling
Video amplifier, inputs	J
Туре	High contrast, high resolu- tion supports 280 MHz pixel- clock
Connectors	BNC type
Impedance	75 Ω
Video level	0.75 to 1.2 V <sub>pp</sub>
Sync level	0.1 to 0.6 V <sub>pp</sub>
Front panel controls	
Controls	Power on/off, contrast, brightness
Geometry	H/V-phase, H/V-amplitude,
	pin & barrel, image rotation
Ambient light sensor	For automatic contrast control
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Display performance Display area (W x H) in mm Non-linearity Raster stability Maximum luminance High voltage regulation	400 x 300 < 2 % 0.05 mm max. swim & jitter P45: ≥ 235 fL @ 0.7 V <sub>pp</sub> input signal 0.2 % max. size change
Operation conditions Temperature - Operating - Storage Humidity, rel Operating - Storage	10 °C to 35 °C, up to 40 °C with some restrictions -25 °C to +70 °C 20 % to 80 % 20 % to 80 %
Mechanical specifications Dimensions (W x H x D) in mm Weight	499 x 483 x 520 Approx. 33 kg
Approvals Safety EMC - Emission	EN 60 950, UL 1950, cUL, DHHS FCC Class A, MPR II, EN 60 601-1-2
Others	CE Mark Medical Device Class I EN ISO 9001, EN 46 001 certified plant
Options - MUMETALL <sup>™</sup> shielding - OEM versions - Other phosphors available Miscellaneous	Customer specific labelling available
Ordering data SMM 21105 LS (Stereo)	Order No. 6GF6300-1BU03